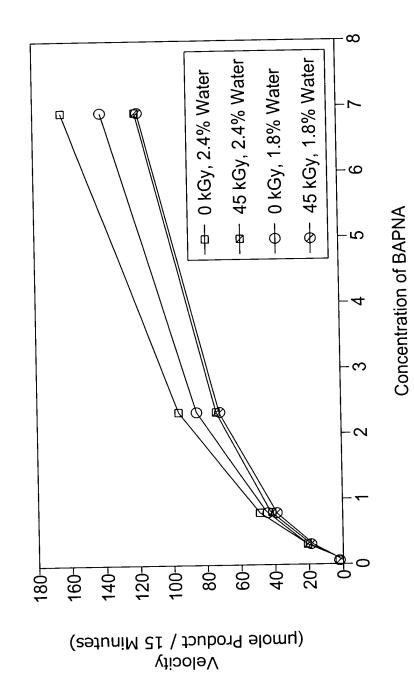
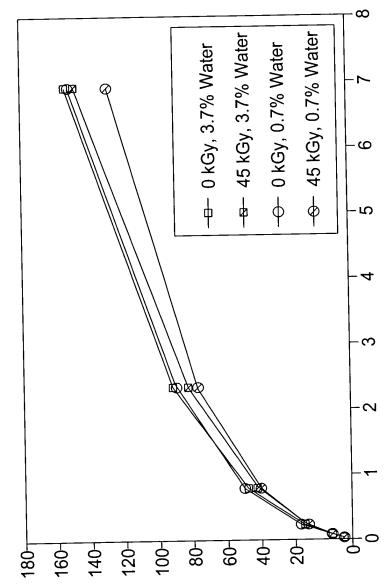
Gamma Irradiation of Lyophilized Trypsin in the Absence of Ascorbate



(mM) FIG. 1A

Gamma Irradiation of Lyophilized Trypsin in the Presence of 100 mM Ascorbate



Concentration of BAPNA

(mM)

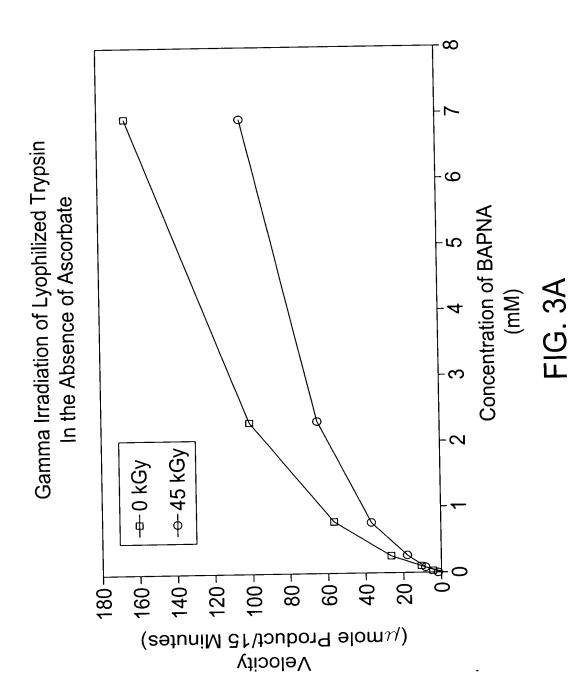
FIG. 1B

Velocity (µmole Product / 15 Minutes)

Q  $\infty$ 

-a- Lyophilized - Liquid Gamma Irradiation of Two Forms of Trypsin In the Presence of 200 mM Ascorbate Hd 9 2 <del>-</del>02 <del>-</del> 09 <del>-</del> 09 40-80 – <del>-</del> 06 100 -Percentage Recovery of Trypsin Activity

3/18



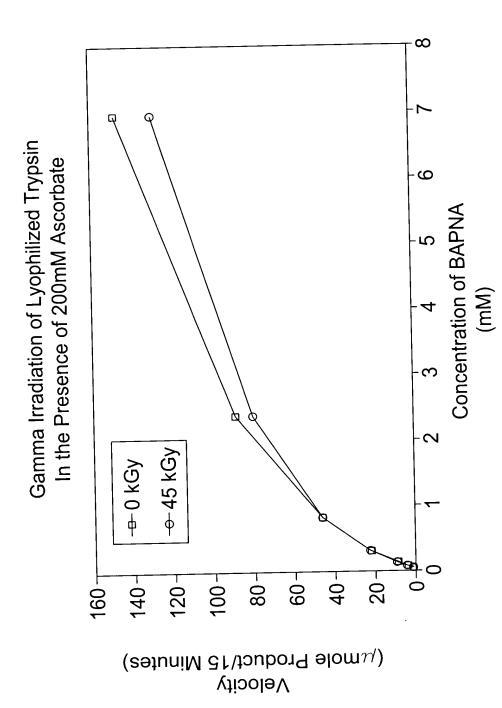


FIG. 3B

Gamma Irradiation of Lyophilized Trypsin In the Absence of Ascorbate 9 Concentration of BAPNA →45 kGy **-**−0 kGy <del>- 08</del> 100 -40 – 20 -<del>-</del> 09 120-Velocity ( $\mu$ mole Product/15 Minutes)

FIG. 4A

(mm)

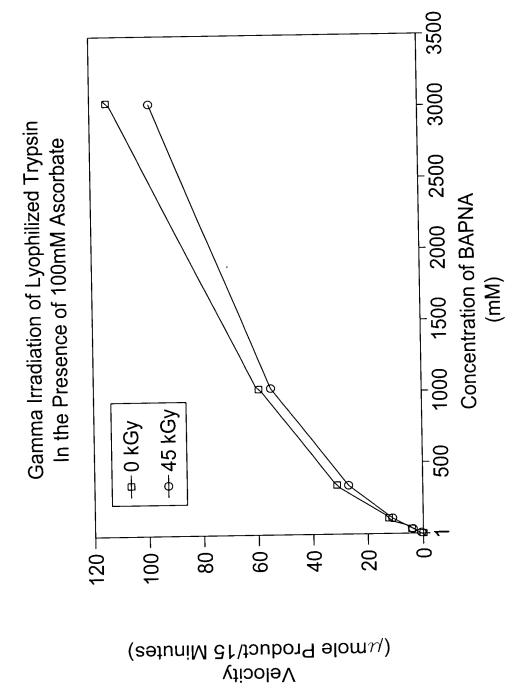
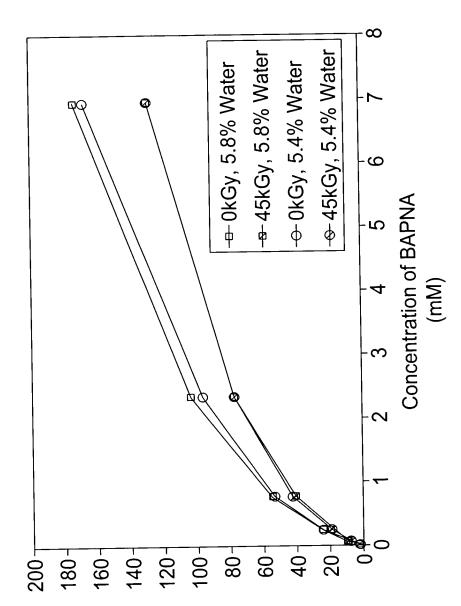


FIG. 4B

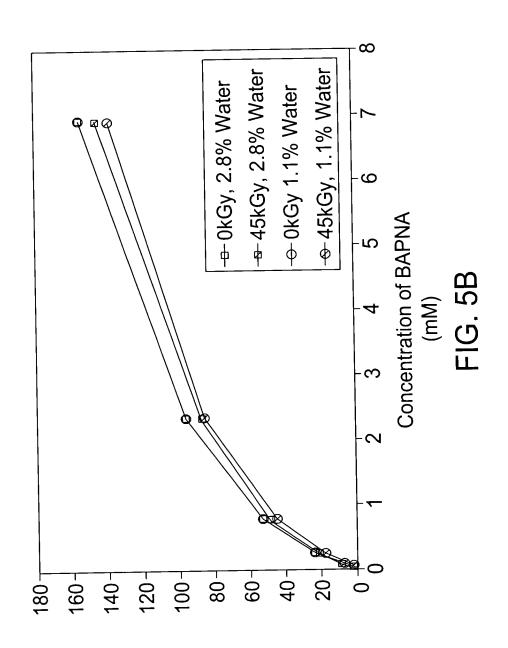
Gamma Irradiation of Lyophilized Trypsin In the Absence of Ascorbate



Velocity ( $\mu$ mole Product/15 Minutes)

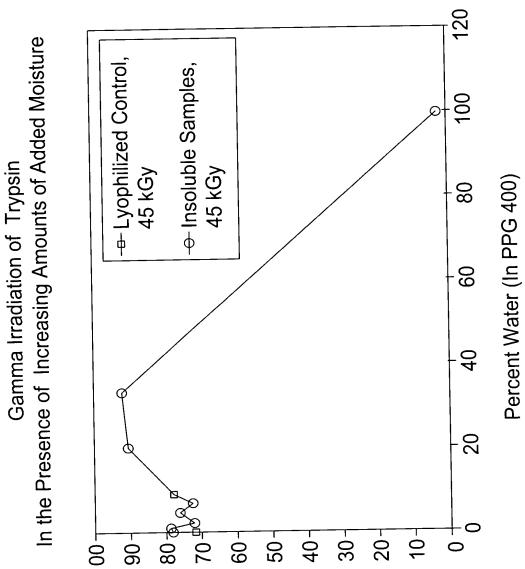
FIG. 5A

Gamma Irradiation of Lyophilized Trypsin In the Presence of 100 mM Ascorbate



Velocity  $\lambda$ mole Product/15 Minutes)

adiation of Trypsin



Percent Protection (Activity of Irradiated Sample / Activity of Unirradiated Sample)

FIG. 6

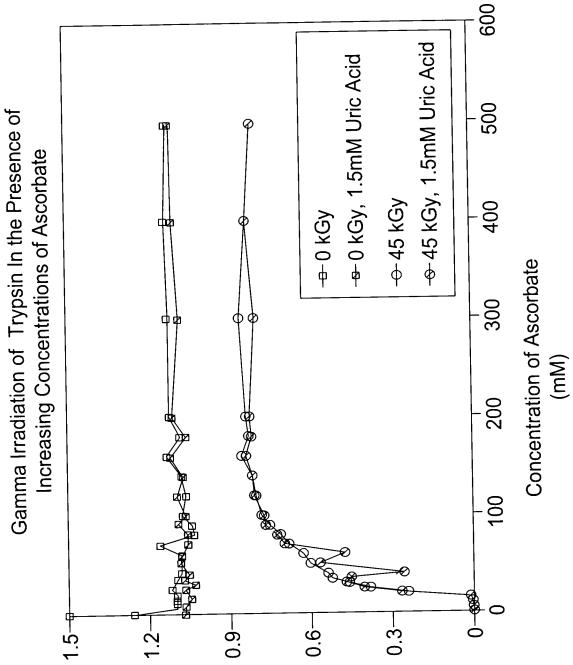
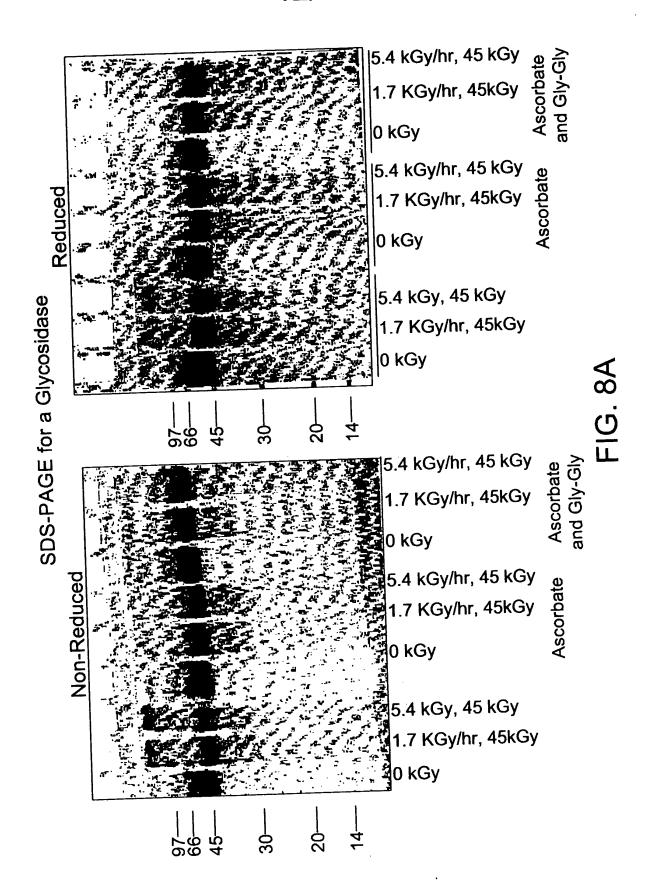


FIG. 7



#### SDS-PAGE for a Sulfatse

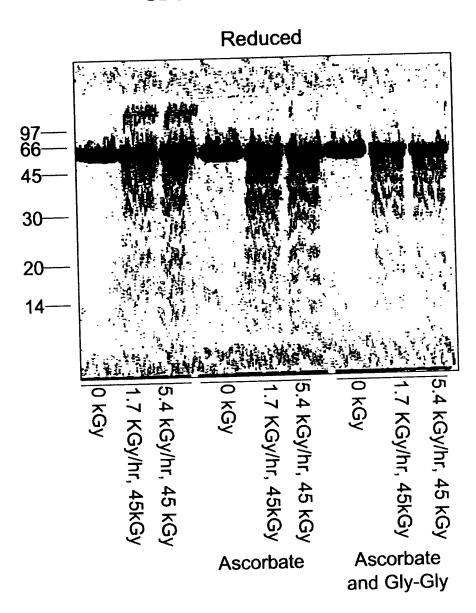
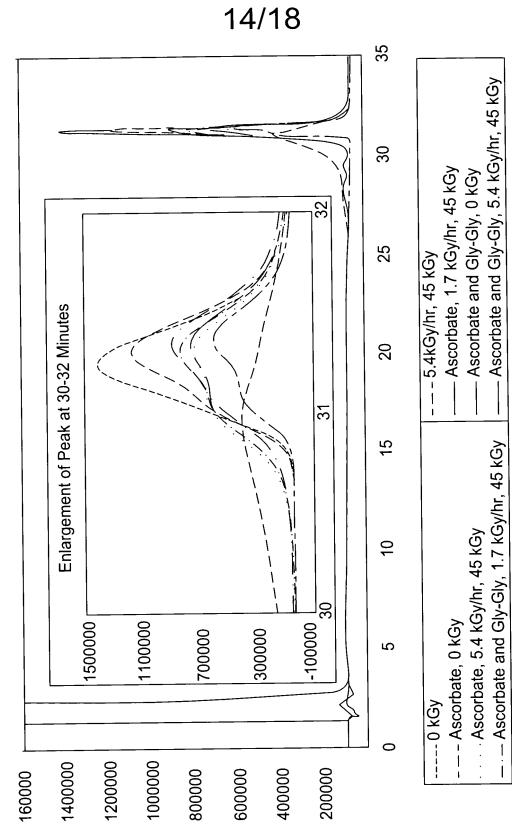


FIG. 8B

Gamma Irradiation of a Glycosidase In the Presence or Absence of Ascorbate Alone or in Combination with Gly-Gly



SIIOAW

FIG. 9

Gamma Irradiation of a Lyophilized Glycosidase and Sulfatase In the Absence and Presence of 100mM Ascorbate

Sulfatase	45 kGy 0 kGy
	45 kG 0 kGy

45 kGy With Ascorbate

45 kGy Without O kGy Ascorbate

45 kGy Without Ascorbate

FIG. 10

With

Ascorbate

Without

Ascorbate

### Gamma Irradiation of a Lyophilized Glycosidase In the Absence of Stabilizers

Reduced & Non-Reduced, 10%

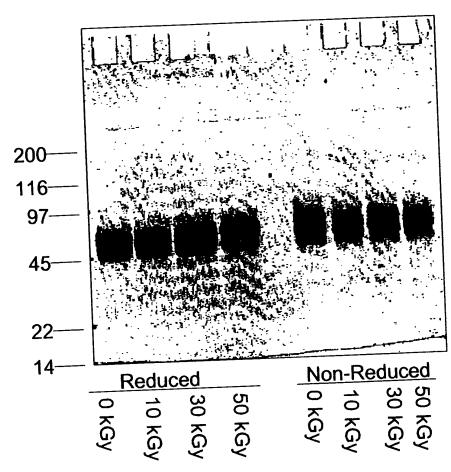


FIG. 11A

# Gamma Irradiation of a Lyophilized Glycosidase In the Presence of 200 mM Ascorbate

### Reduced & Non-Reduced, 10%

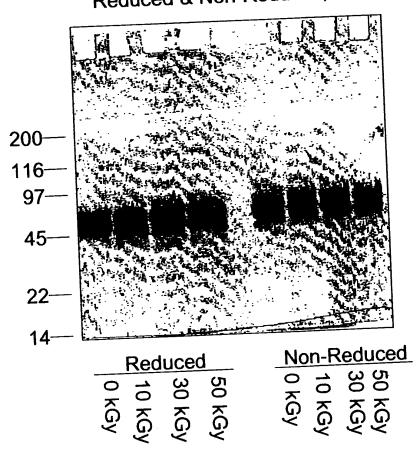


FIG. 11B

## Gamma Irradiation of a Lyophilized Glycosidase In the Presence of 200 mM Ascorbate and 200 mM Gly Gly

Reduced & Non-Reduced, 10%

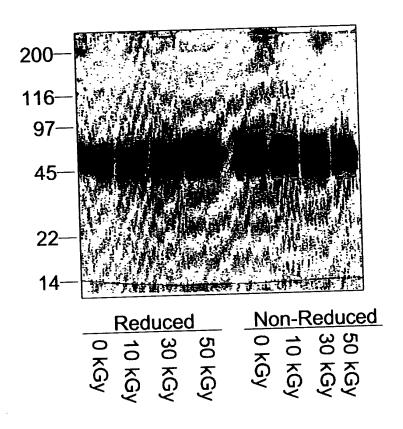


FIG. 11C